

ABSTRACT

The present invention provides a process for producing yeast excellent in cell productivity and gene manipulation of which is easy, being added with nutritional requirement by disrupting only a specific gene, and a transformant thereof. Moreover, the present invention also provides a process for producing a gene expression product, particularly a polyhydroxyalkanoic acid.

In the present invention, yeast in which a plurality of genes is disrupted is produced using the homologous recombination. Moreover, a transformant is obtained by introducing a plurality of enzyme genes involved with polyhydroxyalkanoic acid synthesis such as a

polyhydroxyalkanoic acid synthase gene and an acetoacetyl CoA reductase gene into said gene-disrupted yeast.

Furthermore, said transformant is cultured, copolyesters comprising a polyhydroxyalkanoic acid are efficiently accumulated within the cells, and a polymer is harvested from the cultured product.